Anesthesiologists interested in any phase of oxygen therapy are invited to write for Ohio Chemical's new 40-page brochure. Please favor us with the name of your hospital when filling out the coupon.

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Please forward a copy of your new O_2 brochure, No. 4660.

(date).....

Name..... Title.....

Institution.....

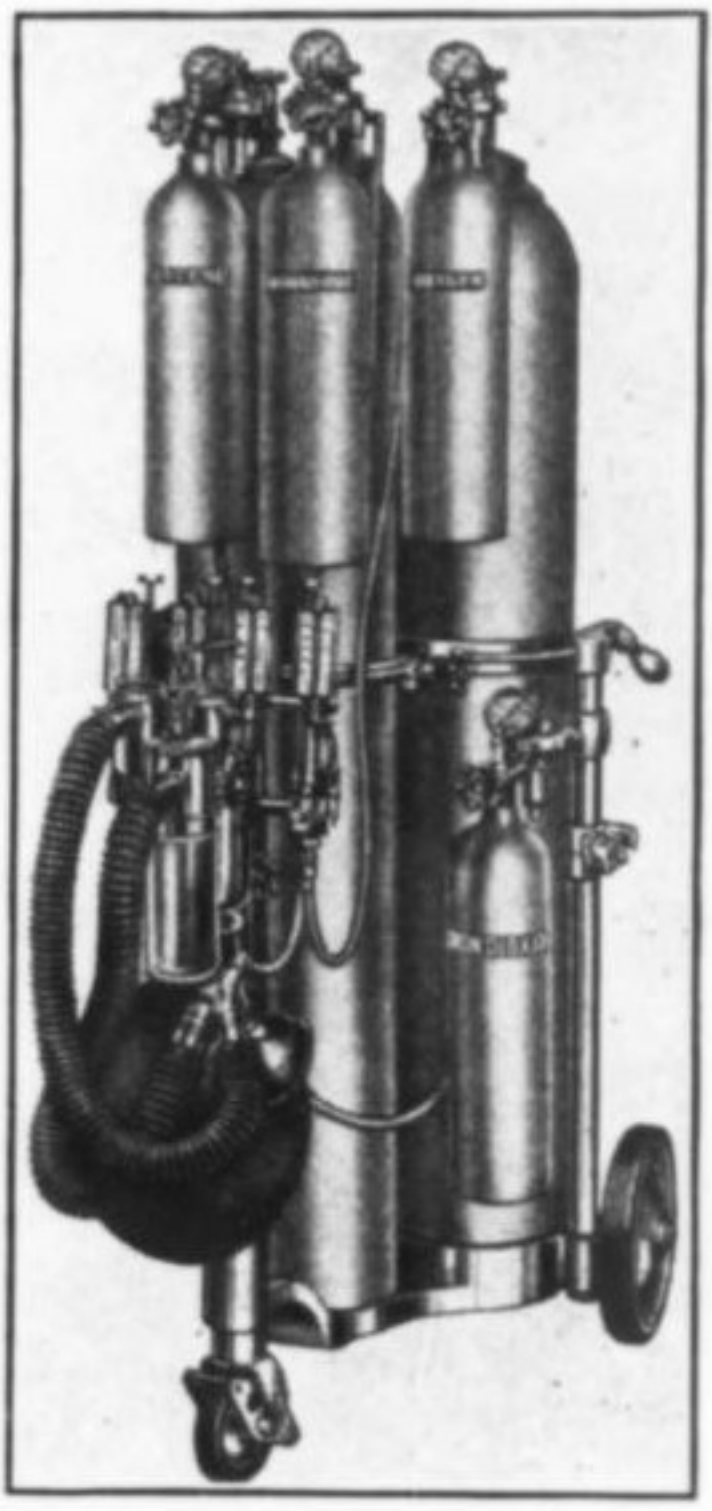
Address.....

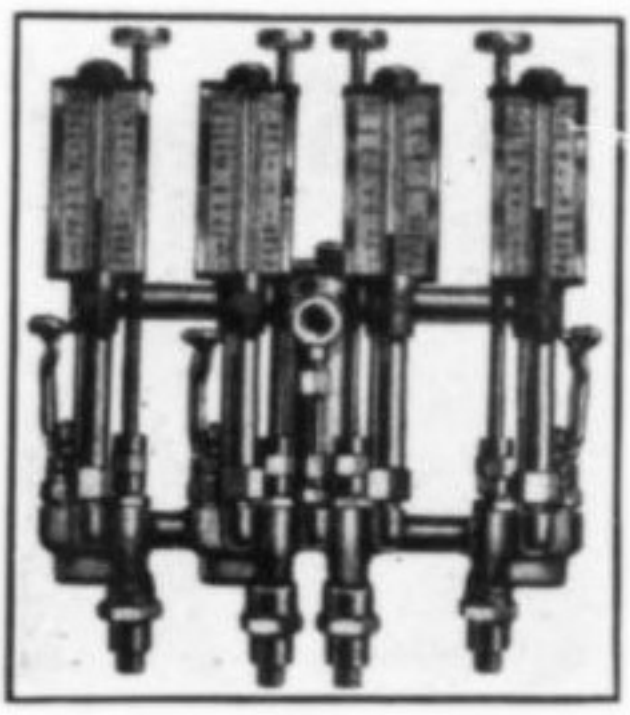
City..... Zone..... State.....

HEIDBRINK

APPARATUS FOR GAS ANESTHESIA

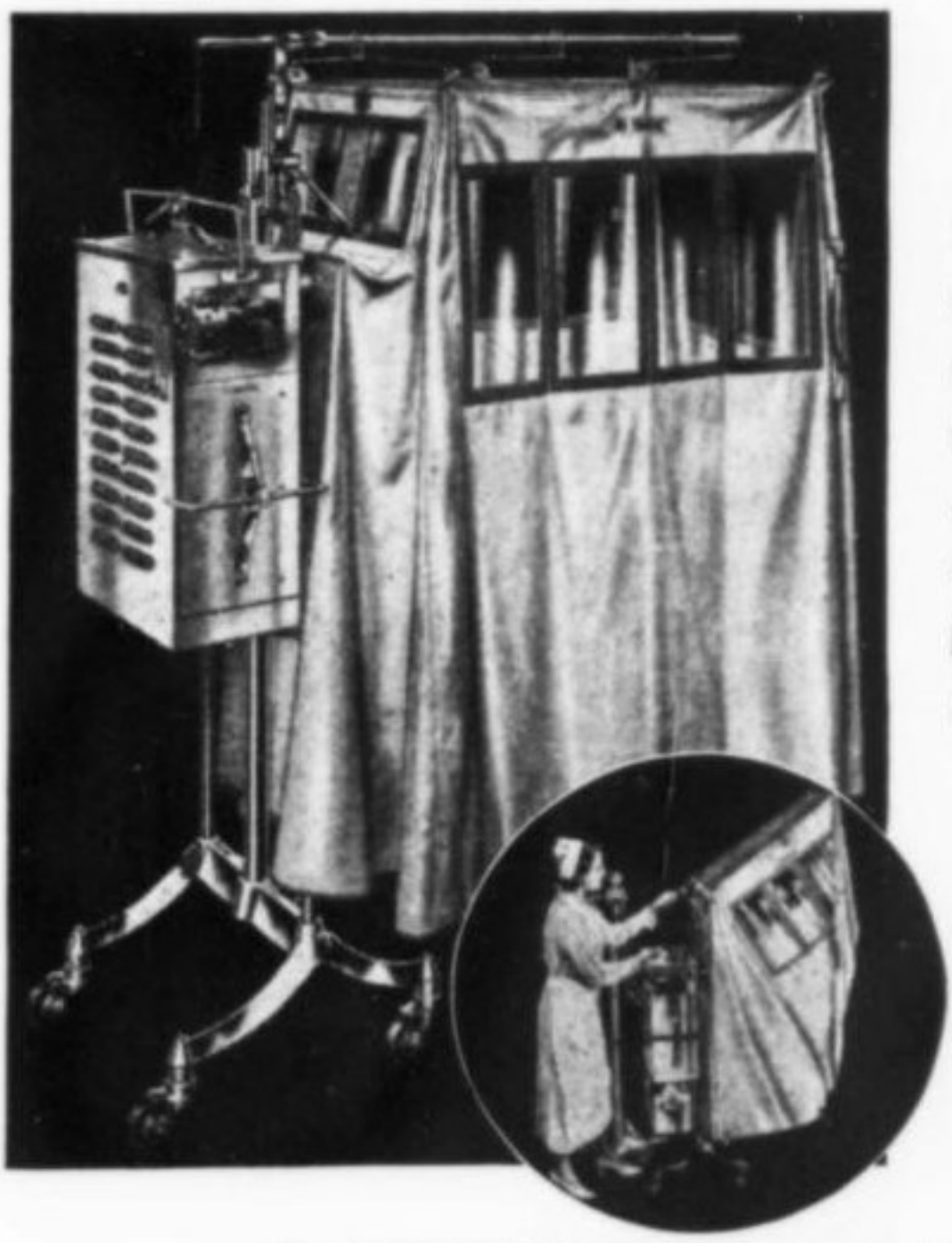
The unequalled performance of the Heidbrink Kinet-O-Meter insures better results, at greatly reduced costs. Its many features simplify administration and develop the confidence of the operator.





Simple dry-float flowmeters (shown at left) control, measure, register and deliver each gas independently and accurately.

OXYGEN TENTS



3 models—two motorized and one motorless—are presented for 1937. They embody many innovations and every feature of practicability.

Any nurse can perform every duty incident to the application, operation and adjustment of any Heidbrink Tent.

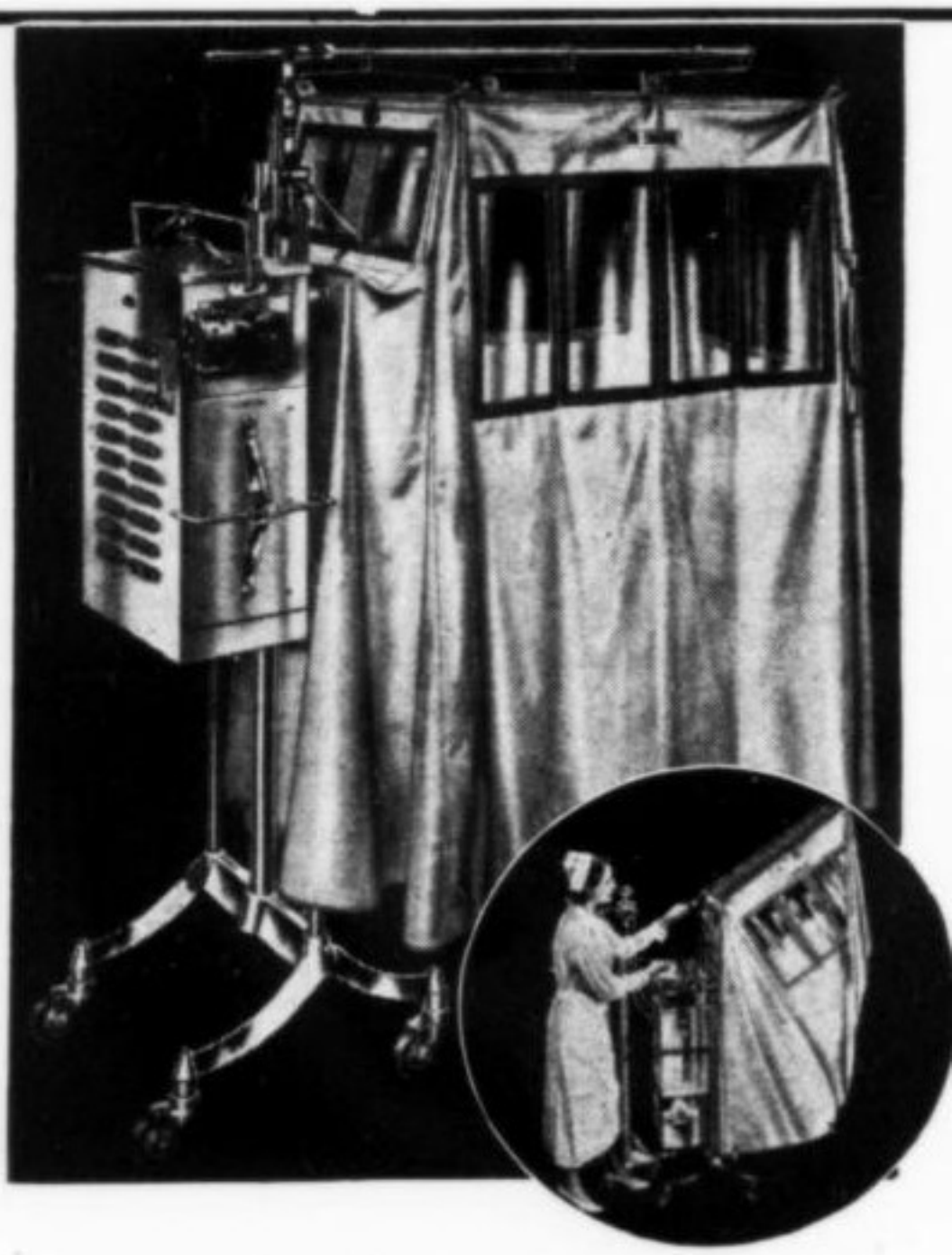
Descriptive literature free upon request.

HI-CO

THE HEIDBRINK COMPANY

MINNEAPOLIS MINNESOTA

HEIDBRINK
OXYGEN TENTS



No 57 Motorized, Portable Unit

. . . and you'll be as splendidly and completely equipped for successful, economical oxygen therapy as the finest hospitals in America.

There are three HEIDBRINK models . . . one motorless and two motorized. Select according to your *requirements*, without thought of price, for *all* have an enviable record endorsed by physicians and nurses everywhere.

HEIDBRINK Oxygen Tents control all the elements so essential to the patient's welfare. They are quiet in operation, accurate in deliveries and dependable in their functioning. There are no mechanical or handling problems and they are successfully and easily operated without an assistant.

Write for descriptive literature and prices.

THE HEIDBRINK CO.

Minneapolis, Minnesota

The OHIO Analgesor

Valuable for use during 1st and 2nd stage labor, painful dressings, serum injections, removal of skin blemishes and painful examination procedure. Model 178 (illustrated) is equipped with oxygen and when operated by the physician or his assistant, may be used to produce brief anesthesia such as required for lancing abscesses, reducing fractures, etc.

Price $80.00
(less cylinders and gas)
F. O. B. Branches

THE OHIO CHEMICAL & MFG. CO.

Pioneers and Specialists in Anesthetics

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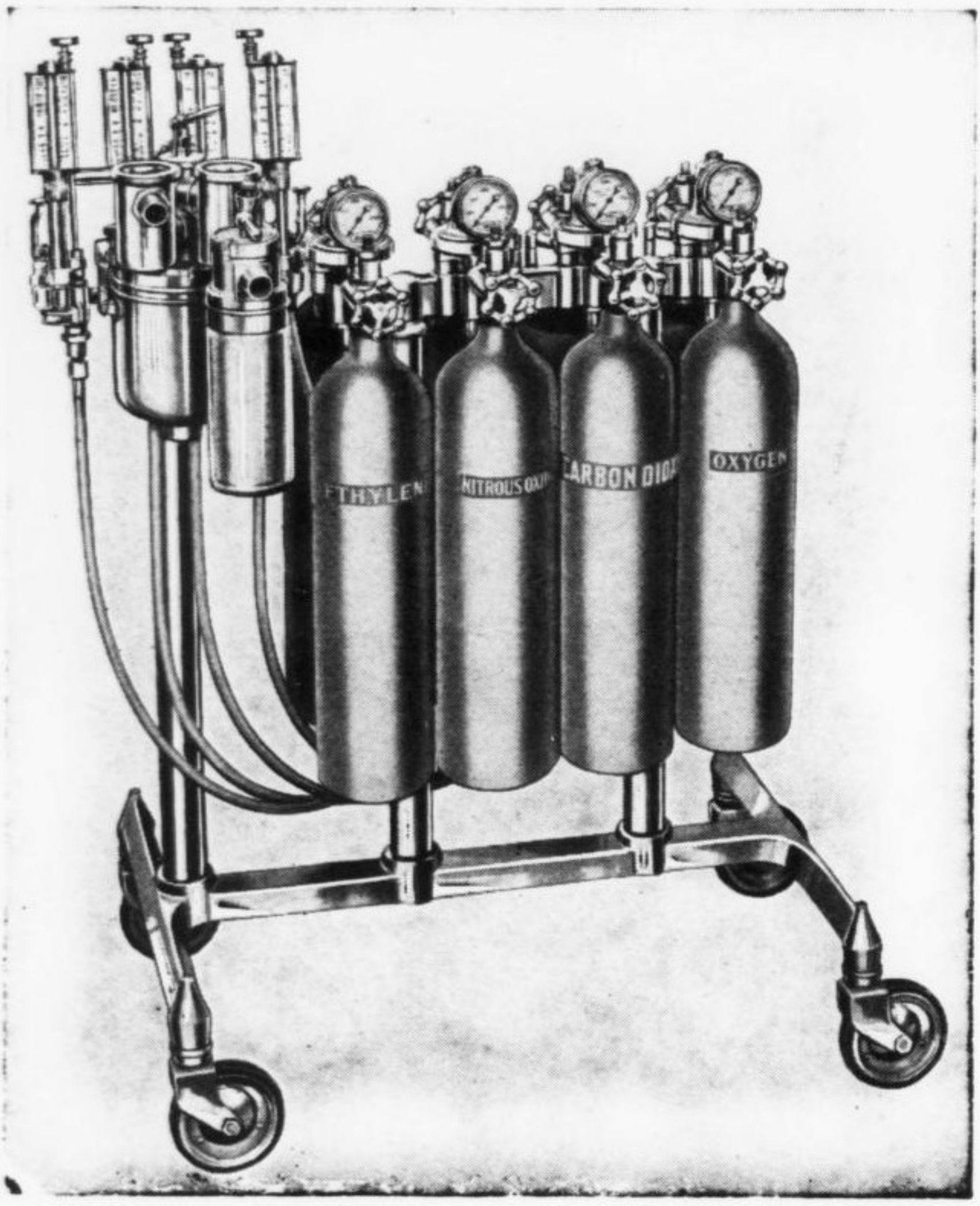
The New Heidbrink

KINET-O-METER



The ULTRA-ECONOMICAL
Absorber Equipped Gas Apparatus

Revolutionizes and simplifies gas anesthesia administration.

Produces better anesthesia at greatly reduced cost. One tank of gas now goes as far as four or five tanks did using old methods.

The patient's condition is better during operation and post-operatively.

Operation is easy. A simple dry-float kinetic type flowmeter controls, measures, registers and delivers each gas independently and accurately for all types of cases.

Valuable exclusive features aid the anesthetist.

Built for 3, 4 or 5 Gases
Including Cyclopropane

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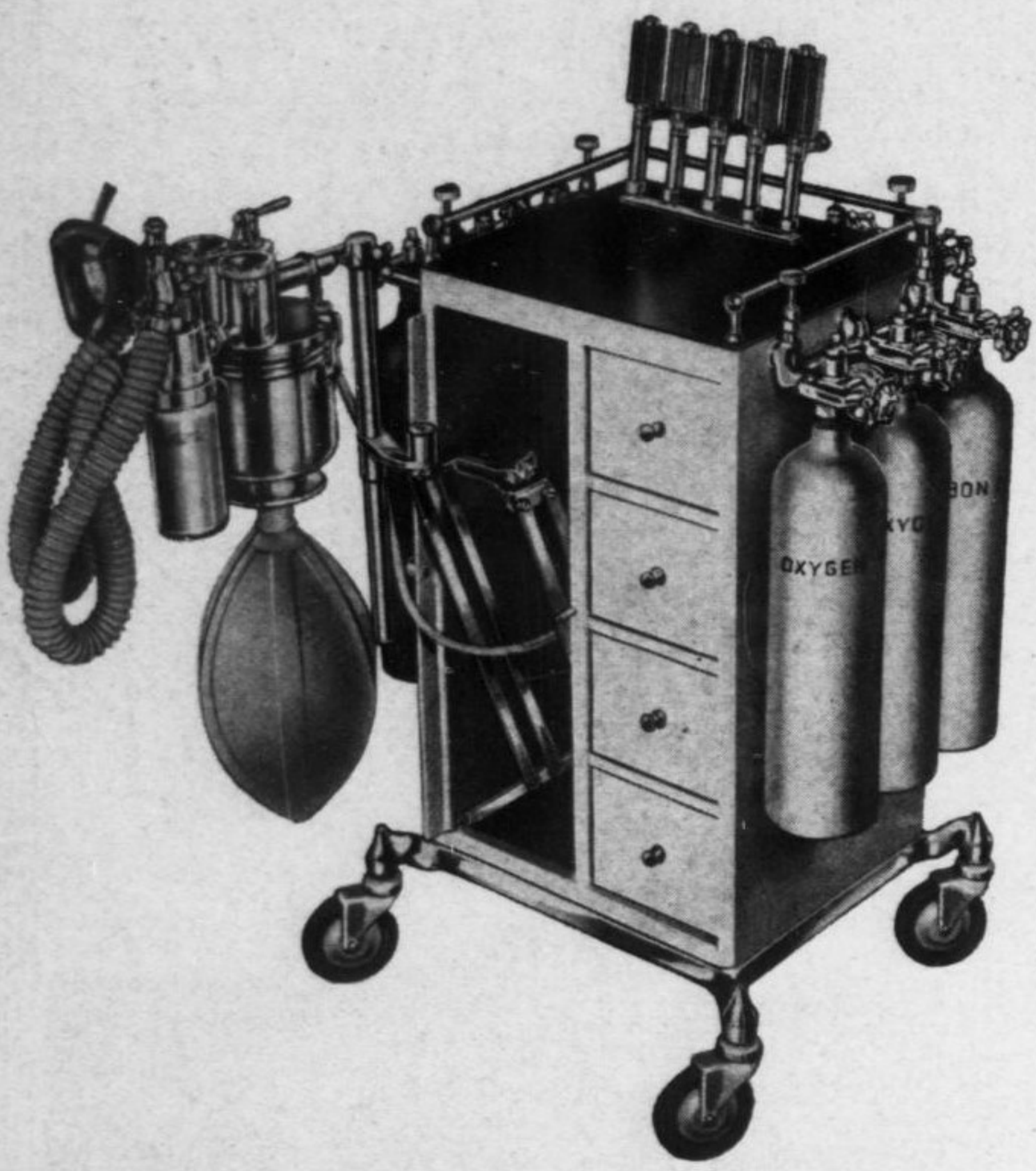
Absorber—EQUIPPED

Gas Apparatus



The New

CABINET MODEL

Kinet-o-meter

● **Offered to discriminating hospitals and anesthetists whose confidence has been gained by the unfailing economical performance and simple operation of other current Kinet-o-meter models.**

See the many exclusive convenience features and smooth operation of this new model at the Catholic Hospital Association Convention in Baltimore, or write for free descriptive literature.

Built for 3, 4 or 5 Gases Including
CYCLOPROPANE

▼

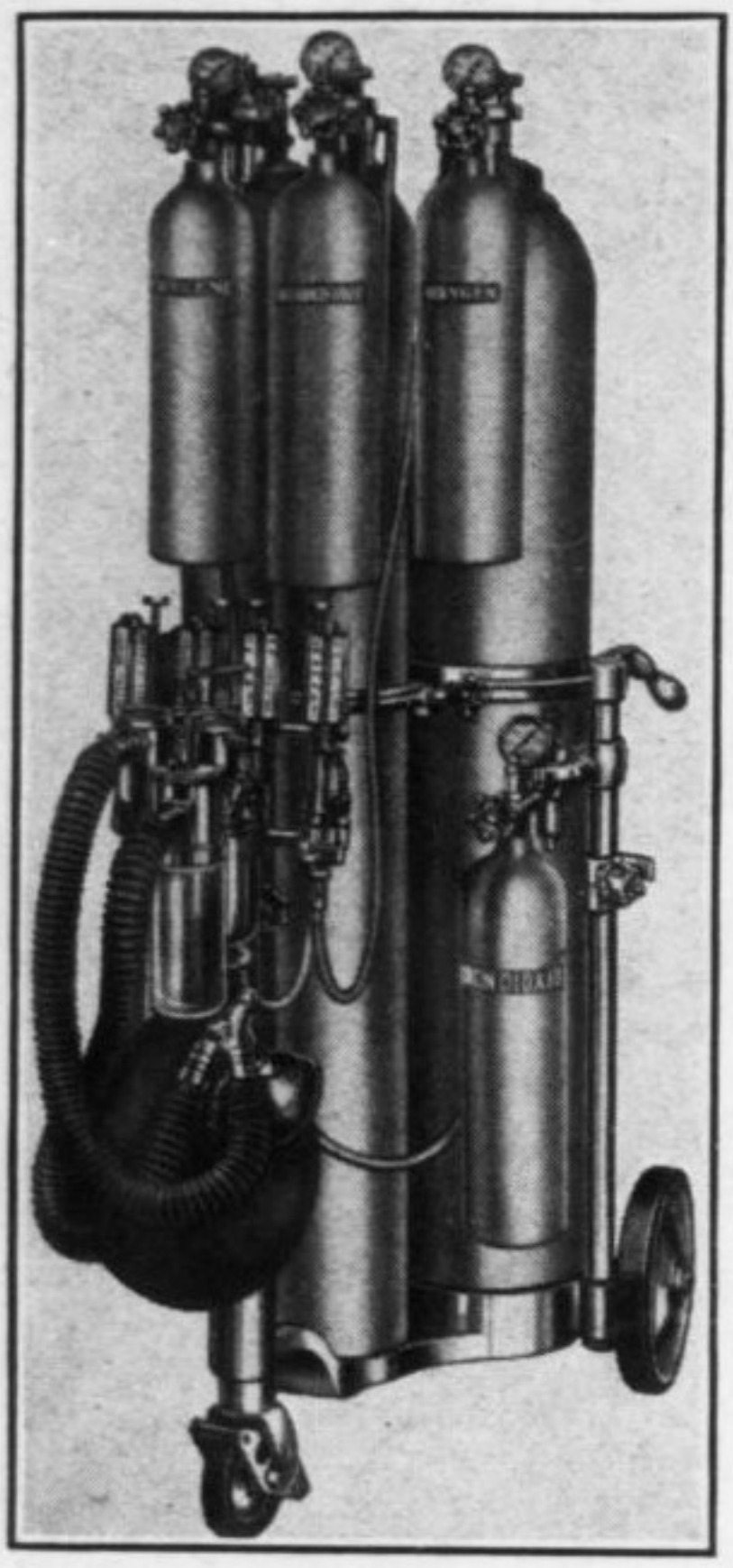
THE HEIDBRINK COMPANY

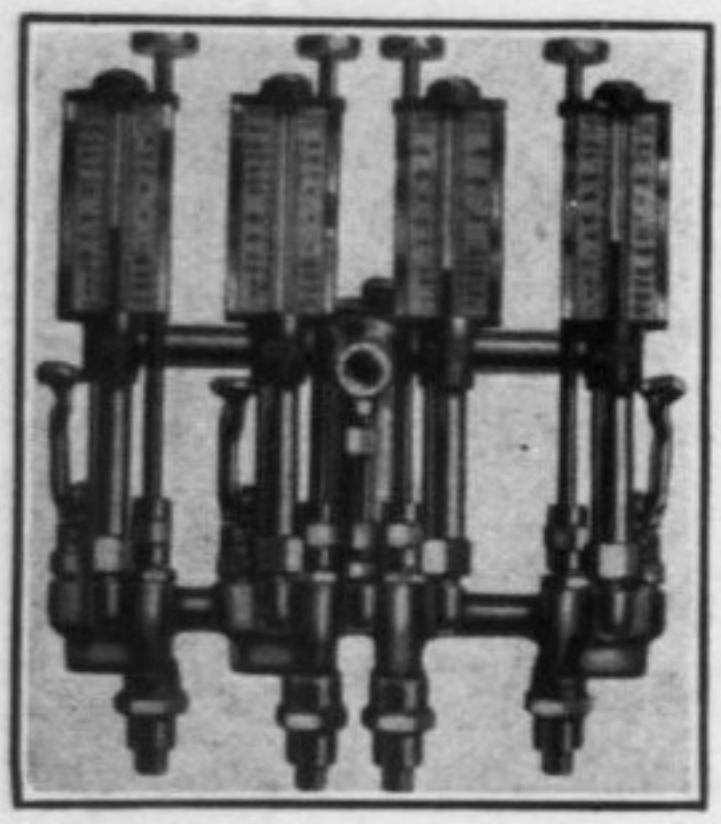
MINNEAPOLIS, MINNESOTA, U.S.A.

HEIDBRINK

APPARATUS FOR GAS ANESTHESIA

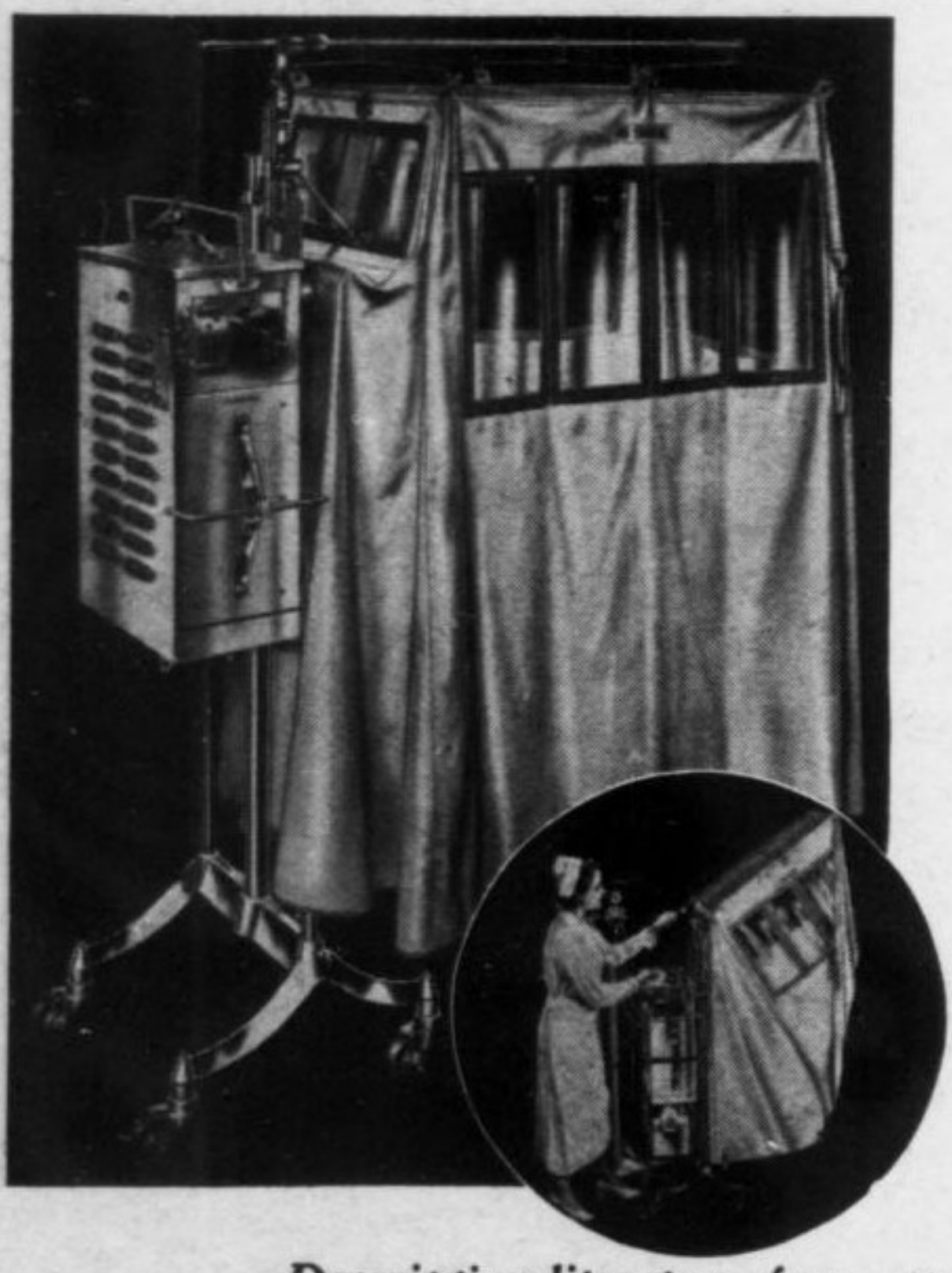
The unequalled performance of the Heidbrink Kinet-O-Meter insures better results, at greatly reduced costs. Its many features simplify administration and develop the confidence of the operator.





Simple dry-float flowmeters (shown at left) control, measure, register and deliver each gas independently and accurately.

OXYGEN TENTS



Three models—two motorized and one motorless—are presented for 1937. They embody many innovations and every feature of practicability.

Any nurse can perform every duty incident to the application, operation and adjustment of any Heidbrink Tent.

Descriptive literature free upon request.

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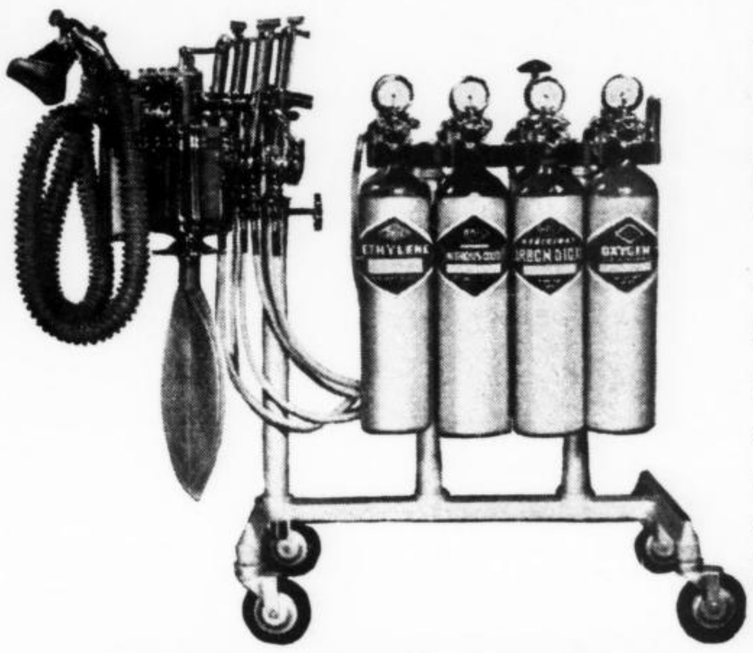
THE HEIDBRINK COMPANY

MINNEAPOLIS MINNESOTA

WHERE
ACCURACY COUNTS

Because the condition of the patient during the operation and post-operatively is largely dependent upon accurate and easily controlled administration of anesthetics, the



HEIDBRINK KINET-O-METER

with its accurate, trouble-free DRY FLOAT Flow-Meters is *preferred* by many of America's leading physicians and anesthetists. It operates with an ease and convenience that enables you to proceed with confidence.

No freezing, no filling, no sediment, no cleaning. It's safe, simple, economical and scientifically correct. Cabinet, Stand or Cart Models.

SEND FOR DESCRIPTIVE LITERATURE

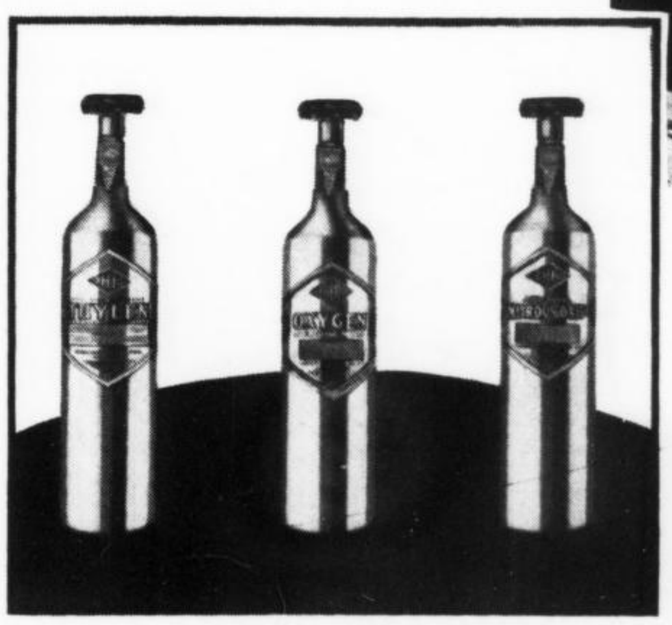
HEIDBRINK DIVISION

THE OHIO CHEMICAL & MANUFACTURING CO. OF CLEVELAND

MINNEAPOLIS • MINNESOTA

The Never-Ending Quest

Tireless effort, ceaseless and exhaustive research by Ohio's staff of highly specialized chemists guard the purity of Ohio gases . . . year in and year out. Ever alert to changing conditions, the never ending quest continues to maintain their recognized standard of excellence . . . to keep modern and achieve even greater attainments. Cylinders are immaculately clean, inside and out. Valves are sealed to protect against confusion with empty cylinders . . . and to prevent the intrusion of dust, grease and oil.



NEXT TIME SAY

"OHIO"

when you order Nitrous Oxid, Ethylene, Cyclopropane, Carbon Dixoid or Oxygen.

THE OHIO CHEMICAL & MANUFACTURING CO.

PIONEERS AND SPECIALISTS IN ANESTHETICS

1177 Marquette Street, Cleveland, Ohio **Branches in All Principal Cities**

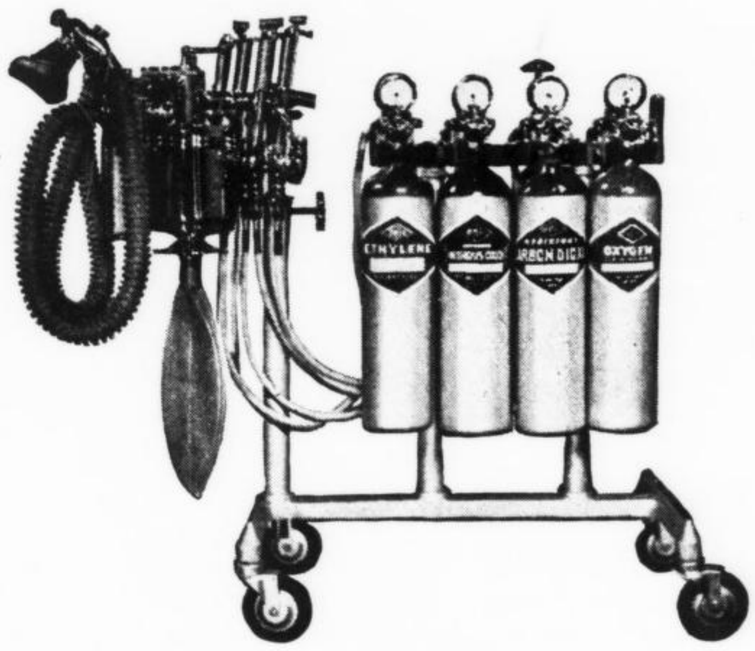
...and Sudden Realization!

Suppose, as you read these pages, you were suddenly taken ill ... and a major operation was immediately necessary.

You are thoroughly familiar with the character of your equipment for the administration of anesthetics . . . you know the kinds and quality of the gases and cylinders that are on hand for immediate use.

You use them every day in administering to other people, *but* could *you* be wheeled into surgery, with untroubled mind—secure in the thought that *your* recovery was safe-guarded by the use of equipment and gases that have attained a position of universal preference among the profession by reason of sheer merit that can only follow years of dependable service and leadership?

Of course, your patients are not conversant with the details attendant upon the administration of anesthetics . . . they come to you in faith and confidence *believing* that you are worthy of their trust . . . *believing* that you will leave no stone unturned to assure their safety during and after the operation.



The Heidbrink KINET-O-METER

For many years, acknowledged and universally recognized by America's leading physicians and anesthetists as the standard of excellence, the Heidbrink Kinet-O-Meter affords a full measure of safety, accuracy, economy, dependability and ease of operation. Its accurate, trouble-free DRY FLOAT Flow Meters assure positive and easily controlled administration. No freezing, no filling, no sediment, no cleaning . . . just years of satisfactory service. Cabinet, Stand or Cart Models.

OHIO GASES...

Instilled with a keen sense of awareness to the vital importance of purity, Ohio's staff of specialized chemists maintain a constant and never-ending vigil . . . that the contents of each Ohio cylinder may be worthy of its name . . . that it may perform, only with the degree of perfection, the profound duty with which it is charged. Ohio Cylinders are in keeping with the purity and perfection of their contents . . . immaculately clean inside and out. Valves are sealed to prevent the intrusion of dirt and grease . . . and to prevent confusion with empty cylinders.

Don't Wait for a Sudden Realization

JOIN with OTHER LEADING HOSPITALS...

who are discarding their present equipment for this better, more modern, more economical apparatus for administering anesthetics. MAKE ANESTHESIA SAFER for *you* and your patients. Next time you order Nitrous Oxid, Ethylene, Cyclopropane, Carbon Dioxid, or Oxygen, say "OHIO".

ASK YOUR SURGICAL SUPPLY DEALER OR WRITE TODAY FOR INTERESTING, DESCRIPTIVE LITERATURE

HEIDBRINK DIVISION
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MINNEAPOLIS • MINNESOTA

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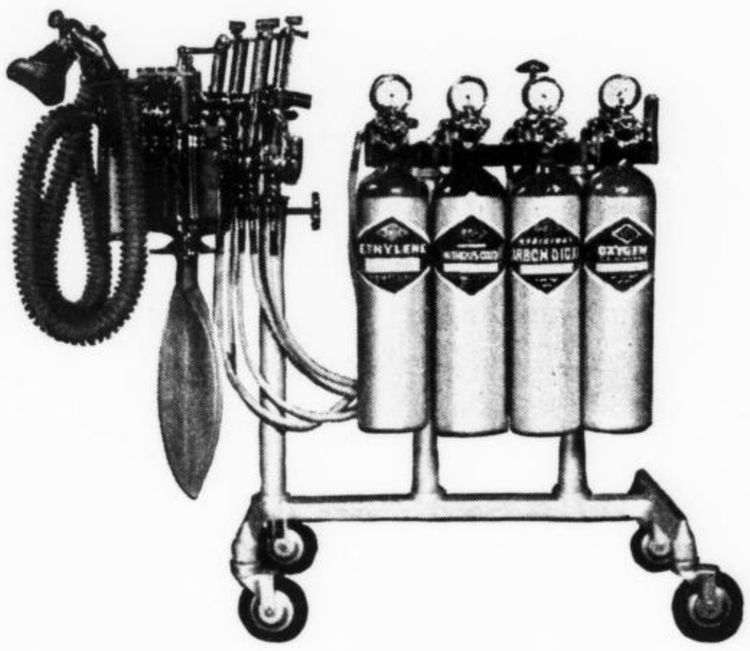
CONFIDENCE



No one individual appreciates more fully, or feels more keenly the CONFIDENCE — Faith — and Trust placed in him by his fellow men — than does the physician and surgeon.

Men and women of every age — from every walk of life—place their life—the lives of their loved ones in his hands, having the utmost CONFIDENCE and Faith not only in his skill and ability to restore health—but also CONFIDENCE in his selection of hospitals.

Every day the surgeon leads suffering, hopeful humanity to the door of your hospital. Is your surgery so equipped as to justify this CONFIDENCE?

Leading hospitals throughout the country have justified this confidence by the installation of the Heidbrink Kinet-O-Meter and the use of "Ohio" gases.

The Heidbrink KINET-O-METER

is scientifically correct . . . The trouble-free Dry Float flow meter . . . its simplicity . . . the ease and convenience of its operation . . . all enable the surgeon to proceed with the utmost CONFIDENCE. The Heidbrink Kinet-O-Meter is safe . . . simple . . . and economical. It is universally accepted by America's leading physicians and anesthetists as the standard of excellence. Cabinet, Stand or Cart Models.

Ohio ANESTHETIC GASES

In modern cylinders . . . with sealed valves . . . together with their uniformly high purity . . . give the surgeon supreme CONFIDENCE. Ohio's staff of specialized chemists are ever watchful that this CONFIDENCE is not misplaced. Their constant vigilance, their ceaseless and exhaustive research, are your guarantee that the contents of each Ohio cylinder . . . is worthy of that CONFIDENCE.

Ask your surgical supply dealer or write us for detailed information on Heidbrink apparatus and Ohio gases.

Protect this
CONFIDENCE
placed in you by surgeons and patients.

Install this better, safer, most modern, more economical apparatus for administering anesthetics. Make anesthesia safer. Next time you order Nitrous Oxid, Ethylene, Cyclopropane, Carbon Dioxid and Oxygen . . .

Say **"OHIO"**

HEIDBRINK DIVISION
2633 FOURTH AVENUE, SO.
MINNEAPOLIS, MINNESOTA

The OHIO CHEMICAL & MFG. CO.

PIONEERS AND SPECIALISTS IN ANESTHETICS
1177 MARQUETTE STREET, CLEVELAND, OHIO
BRANCHES IN ALL PRINCIPAL CITIES

3 QUESTIONS

and EIGHT ANSWERS . . . *you'll find interesting*

THESE ARE TRUE FACTS . . . AREN'T THEY, DOCTOR?

You regard the responsibility placed upon you and the character of the equipment in your surgery as a sacred trust.

You realize that each patient comes to you in full faith and confidence believing that your surgery is properly equipped to assure his safety during the operation and post-operatively.

You are sincere in your desire to be worthy of the confidence and trust reposed in you and your institution.

You know that in both major and minor operations, the recovery of the patient is, to an important degree, dependent upon the scientific administration of anesthesia.

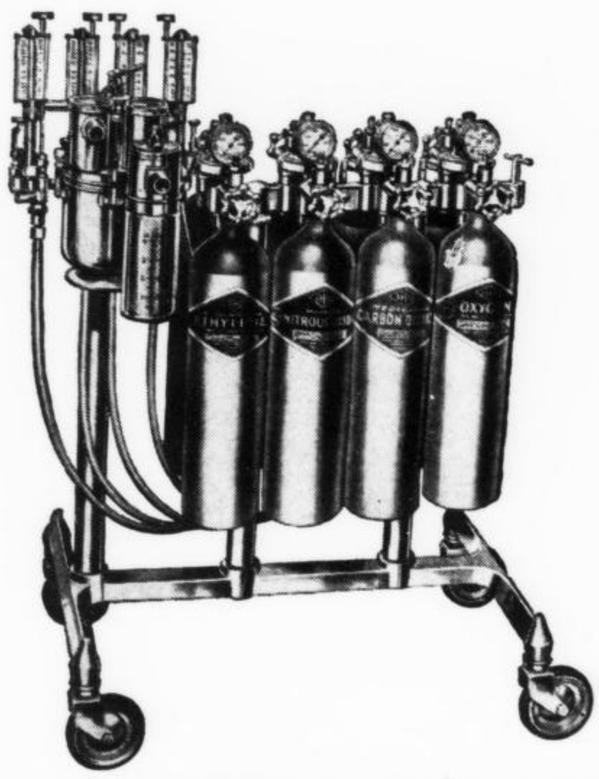
THEN, THESE FACTS ARE IMPORTANT . . . AREN'T THEY, DOCTOR?

Leading surgeons and hospitals recognize the HEIDBRINK KINET-O-METER as **the standard of excellence.**

It is scientifically correct, safe, simple in operation and economical . . . built to exceed the requirements of all anesthestists.

There are no concealed rubber bags, diaphragms or other perishable parts to control gas pressure and flow. No freezing, no filling, no sediment, no cleaning.

Its accurate, trouble-free DRY FLOAT Flow Meters assure positive and easily controlled administration . . . and your surgeons can proceed with confidence in the knowledge that the HEIDBRINK KINET-O-METER is safe for the patient and for them . . . worthy of the faith and trust reposed in it.



The HEIDBRINK KINET-O-METER
AVAILABLE IN CART, CABINET AND STAND MODELS

WOULD YOU LIKE MORE INFORMATION, DOCTOR?

Fill in and mail the coupon and we'll gladly send you our interesting KINET-O-METER Brochure giving complete details and specifications . . . . no obligation, of course.

WRITE FOR YOUR COPY
Today

THE OHIO CHEMICAL & MFG. CO.
PIONEERS AND SPECIALISTS IN ANESTHETICS
1177 Marquette Street Cleveland, Ohio
BRANCHES IN ALL PRINCIPAL CITIES

THE OHIO CHEMICAL & MFG. CO.
CLEVELAND, OHIO

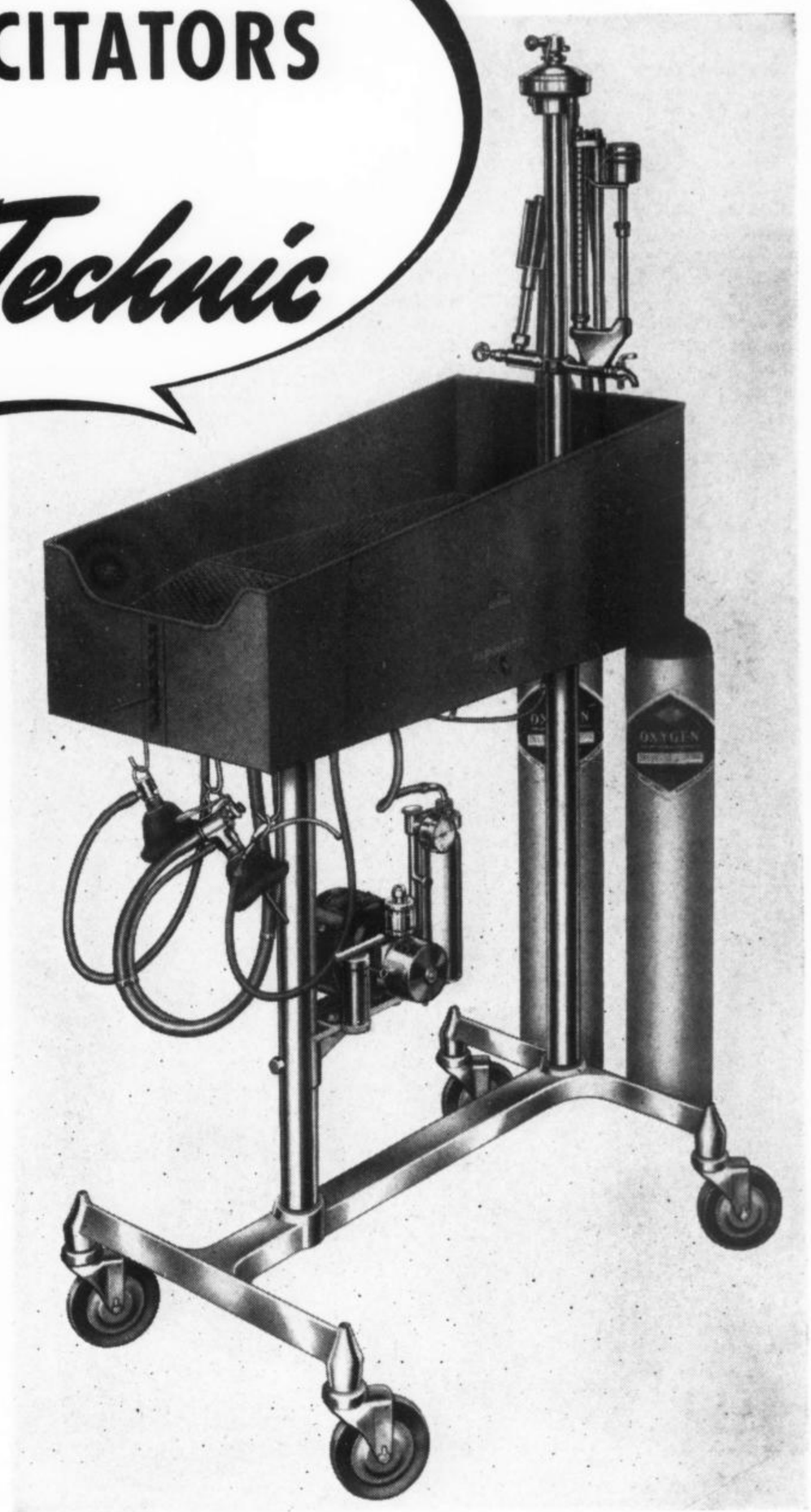
Gentlemen:
Please send me more detailed information on Heidbrink Kinet-O-Meter and Ohio Gases.

NAME _____

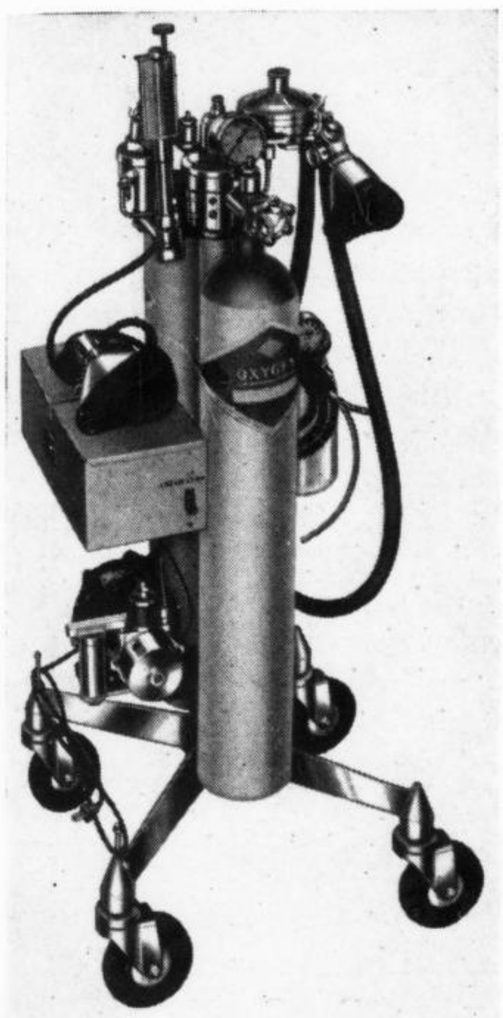
ADDRESS _____

CITY, STATE _____

HEIDBRINK RESUSCITATORS
employ a
Simple, Safe Technic



Heidbrink Resuscitators are of two general types—one designed especially for use on new-born and very small infants; the other for use on older children and adults. Technic for using either size is simple and safe. On models for infants the operator merely adjusts the automat to deliver the pressure selected for the type, size and age of patient, adjusts the escape valve of the water manometer and administers Oxygen rhythmically to simulate natural breathing. When breathing begins, Oxygen or Oxygen-air mixture is administered continuously. With adult models, the automat is set to deliver the selected pressure and the same technic applied as with models for infants.



Stand Models for Adults

Model 51A Heidbrink Adult Resuscitator includes operative head complete with calibrated automat, flowmeter calibrated for Oxygen and 80-20 percent Helium-Oxygen mixture, two-yoke automatic regulator for D and E size tanks, 3,000-lb. tank pressure gauge, resuscitation and inhalation inhalers with adult size interchangeable bodies, adult size catheter adapter, tubings, handwheel wrench. Complete equipment is mounted on a four-caster stand.

The "Accepted" seal denotes that Heidbrink Resuscitators, Models 51A and 20A, have been accepted by The Council on Physical Therapy of The American Medical Association.

Bassinet Model for Infants

Model No. 20A for resuscitation, inhalation and aspiration. Includes operative head with automat, manometer and flowmeter, two-yoke automatic regulator for D or E size gas tanks, electrically warmed bassinet with large drawer, perforated tray adjustable up and down at both ends, mattress, electrically operated aspirator, infant size resuscitation inhaler with airway, infant size inhalation inhaler, infant size cathether adapter and intratracheal catheter, tubings, handwheel wrench. Complete for use, mounted on heavy two-post stand with large noiseless casters.

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Pioneers and Specialists in Anesthetics

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Branches in all Principal Cities

THE OHIO CHEMICAL & MFG. CO., CLEVELAND, OHIO

Please send your catalog giving details and specifications of Heidbrink Resuscitators.

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Address _____

City _____ *State* _____ MH 8-42

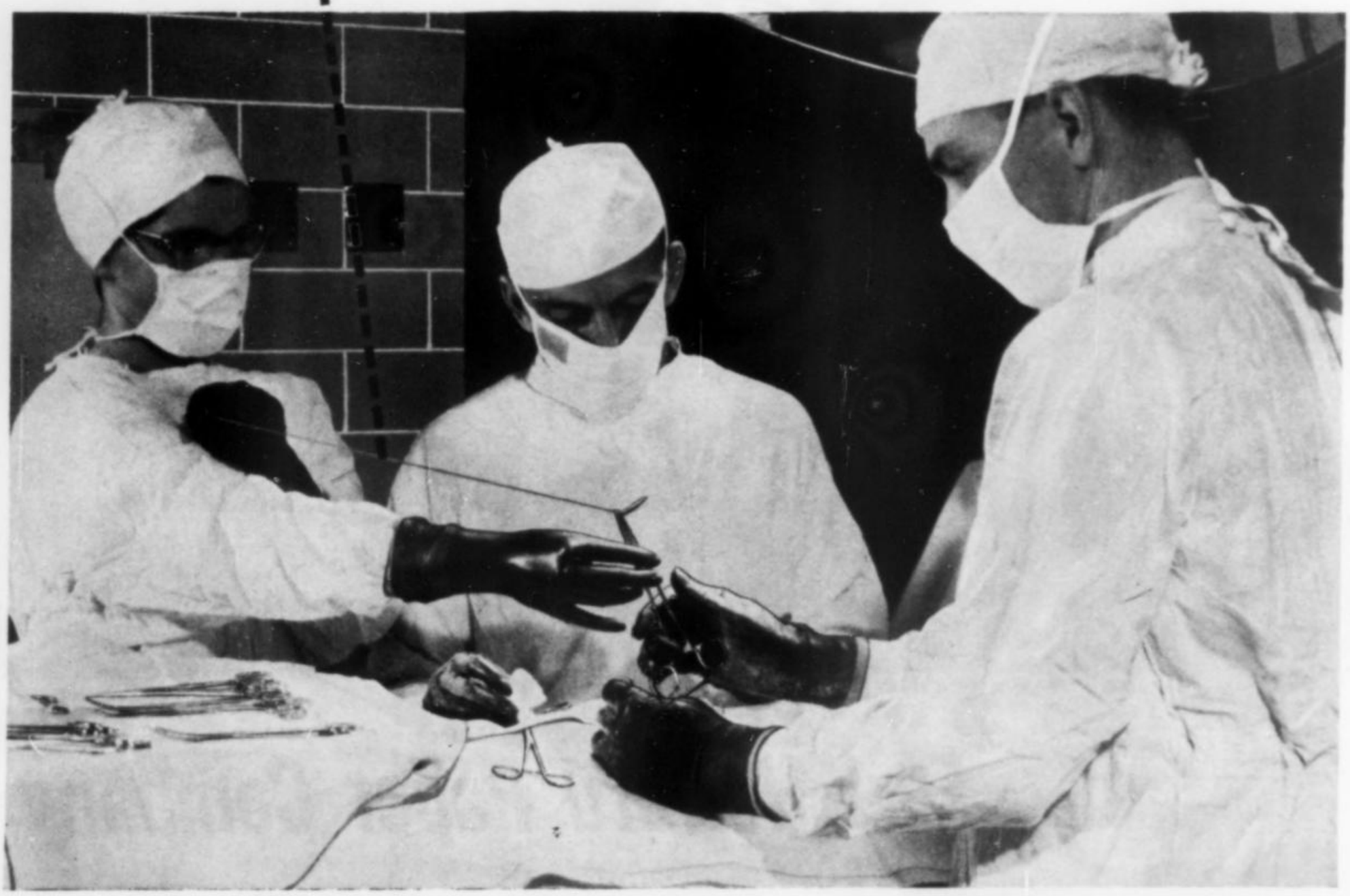
Ohio Chemical ... a member

TENSO-*Pli*®

the vital threads of surgery

Ohio Chemical first offered its sutures to the surgical field over a quarter century ago. Continued research and development since that time (1930) plus proved performance in service, have resulted in a solid reputation for the entire line of Ohio Chemical suture materials.

Today the name TENSO-*Pli*® is the Ohio Chemical guarantee of the finest in surgical gut. TENSO-*Pli* sutures have high tensile strength, *exceeding U.S.P. requirements by*



Ohio Chemical ... a member

DALLONS ELECTRONIC EQUIPMENT

aids in precluding cardiac arrest during surgery

As a member of the hospital team, Ohio Chemical is pleased to announce its appointment as distributor in the United States and Canada for Dallons electronic cardiological equipment. As an acknowledged leader in the medical electronics field, Dallons contributes its skill to aid the operating team in further reducing surgical risk.

The insidious onset of ventricular fibrillation or cardiac arrest has plagued the surgical team. *NOW* medical electronics provides a method for continuous monitoring of the electrocardiological signs preceding the clinical picture. Cyanosis, absence of pulse and blood pressure do not differentiate between cardiac arrest and fibrillation.

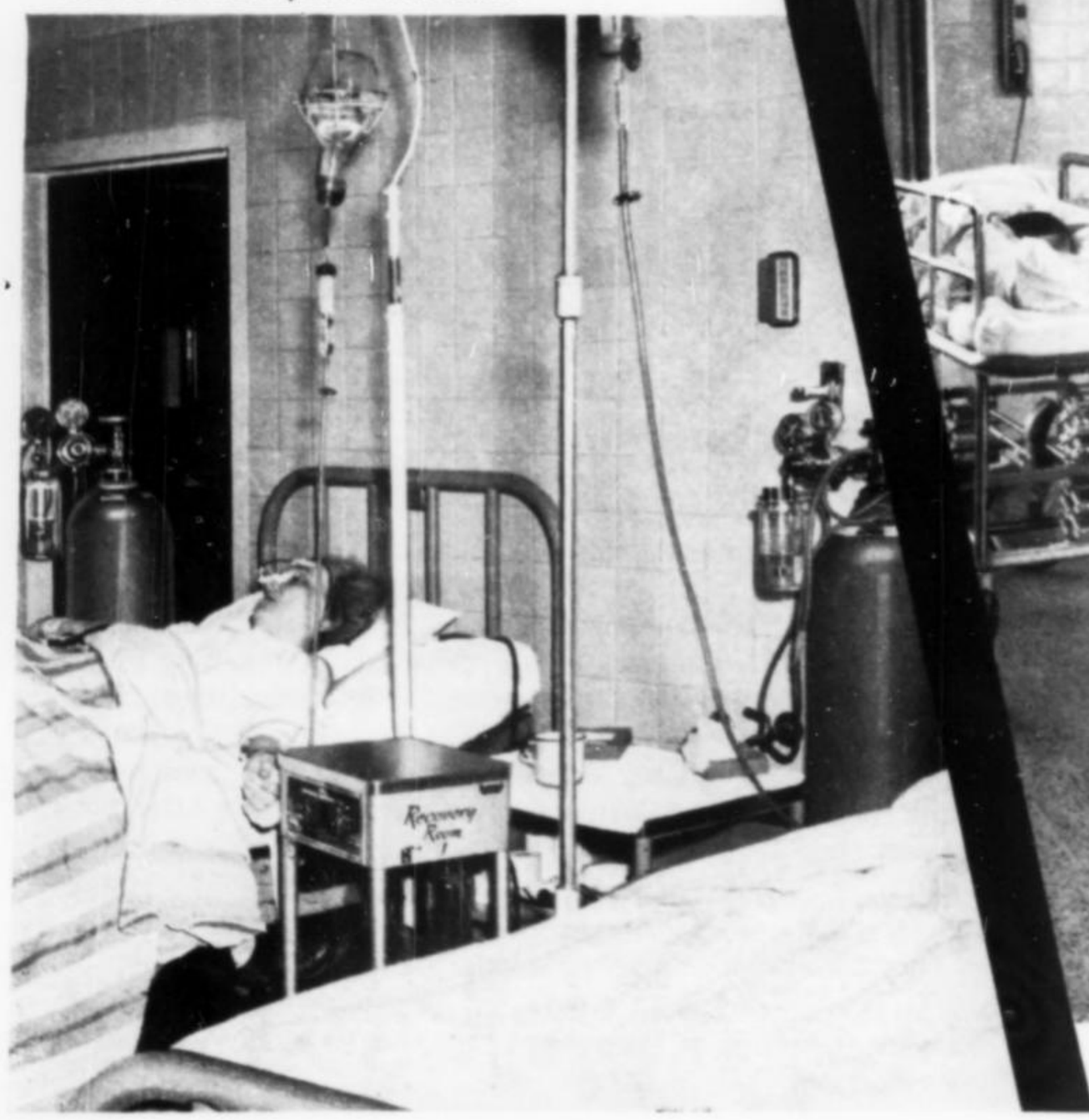
Ohio Chemical ... a member

OHIO CHEMICAL CENTRAL PIPELINE SYSTEMS

Custom-Engineered from Preliminary Specifications Through to Completed Job

Today many hospitals throughout the country are experiencing substantial savings in time and money with an Ohio Chemical pipeline system. Installing a central pipeline system in any hospital, old or new, is greatly simplied with the aid of Ohio Pipeline Specialists. They will

Before Central Pipeline Installation



After Central Pipeline Installation

A NEW HIGH IN THE EFFICIENT USE OF OXYGEN

Actual clinical tests have indicated an oxygen concentration of 68% at 10 lpm with the Model Twenty-Five Oxygen Tent. Complete separation of blower from the motor permits sealing blower shaft against oxygen loss. There is no intervening ductwork to cause oxygen or temperature loss between cooling chamber and hood.

New, non-cycling refrigeration unit holds temperature inside the hood to within one degree at all times. Humidity is equally stable. The refrigerating unit runs continuously, eliminating "on-off" switching that disturbs the patient and causes temperature variation. Larger, slow-speed blower provides ample circulation at a lower noise level.

Model Twenty-Five is available in three frame heights to accommodate all commercial bed rails. This compact, lightweight unit is mounted on a SterilBrite® frame with 4" ball-bearing conductive casters for greater mobility.

For full details on the Model Twenty-Five, write for Form 2180-OT. If you prefer, ask an Ohio representative to actually show you a Model Twenty-Five Tent — he usually carries one in his station wagon.

OHIO

Ohio Chemical

OHIO CHEMICAL & SURGICAL EQUIPMENT CO.
MADISON 10, WISCONSIN

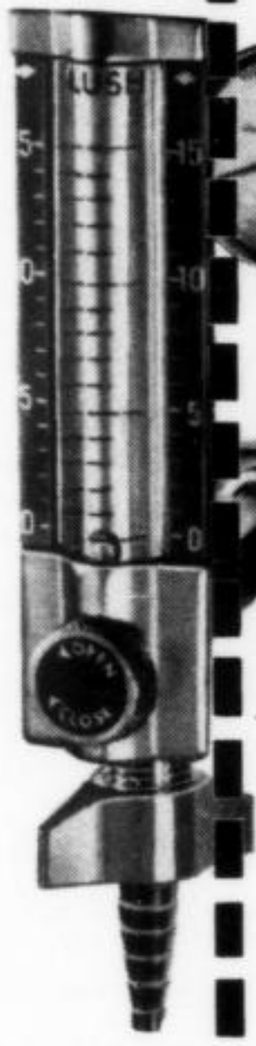
Ohio Chemical Pacific Company, Berkeley, Calif.
Ohio Chemical Canada Ltd., Toronto 2
Airco Company International, New York 17
Cia. Cubaña de Oxigeno, Havana
(All Divisions or Subsidiaries of
Air Reduction Company, Incorporated)

AIRCO

Ohio Chemical

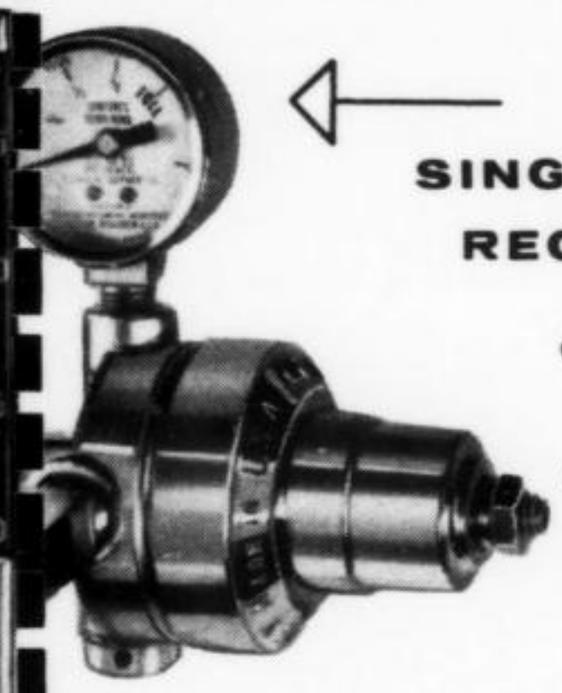
announces 3 newly developed OXYGEN THERAPY AIDS

NEW PRESSURE-COMPENSATED FLOWMETER



- Crystal clear tube for easy wide-angle reading
- For use in all types of inhalation therapy
- Flow indication is unaffected by back pressure
- Modern functional design
- Easy, accurate adjustment
- Adapts for use with pipeline outlet or regulator
- Forged brass valve body
- 0 to 15 l.p.m. gradations plus "flush" position

For added information, please request Form 4772



NEW SINGLE-STAGE REGULATOR

- Easy, finger-tip flow control
- Glass wool strainer protects working parts from dust and dirt
- Durable all-metal construction — compact design
- Easy to inspect or replace reversible valve seats
- Economical in cost and maintenance

For added information, please request Form 4772

NEW OHIO NEBULIZER

- Generates stable suspension of liquid particles in micron size range
- Whistle warns when oxygen flow is obstructed, even if flow is set at 3 l.p.m.
- Operates with cylinder or pipeline pressure; unbreakable bottle
- Outlet adapts to small or large corrugated tubing; nebulizer attaches to regulator or new Ohio flowmeter

Please request Form 4778 for added information

OHIO

Ohio Chemical

OHIO CHEMICAL & SURGICAL EQUIPMENT CO.
Madison 10, Wisconsin

Ohio Chemical Pacific Company, Berkeley 10, Calif.
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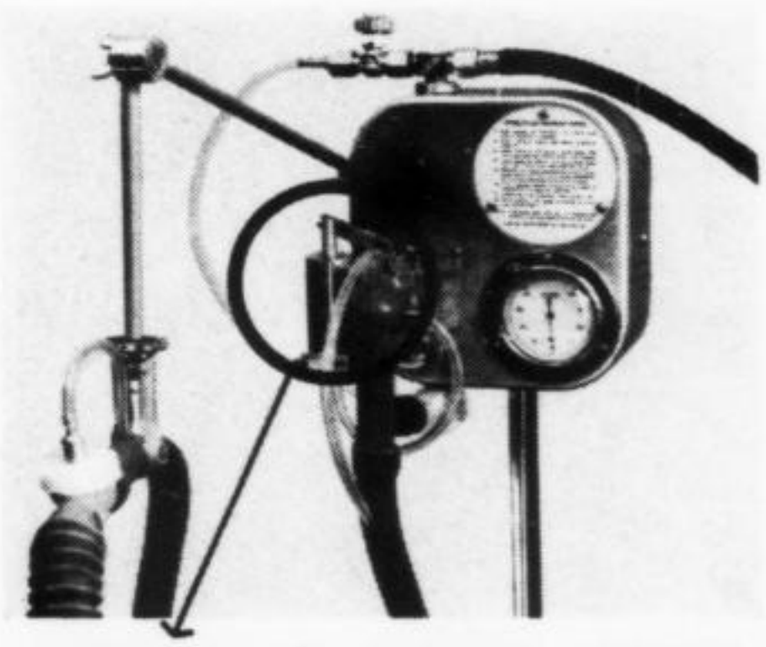
(All subsidiaries or divisions of
Air Reduction Company, Incorporated)

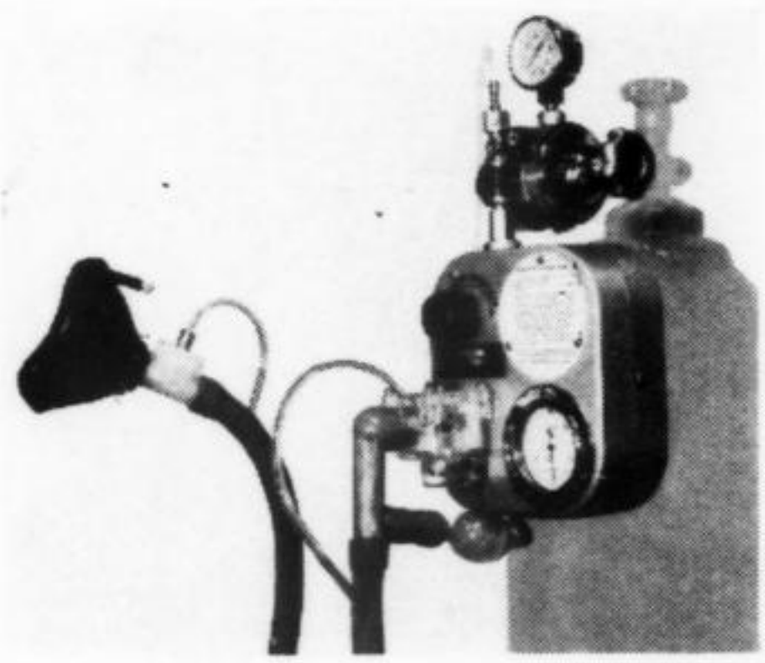
FOR MAXIMUM AEROSOL EFFECTIVENESS

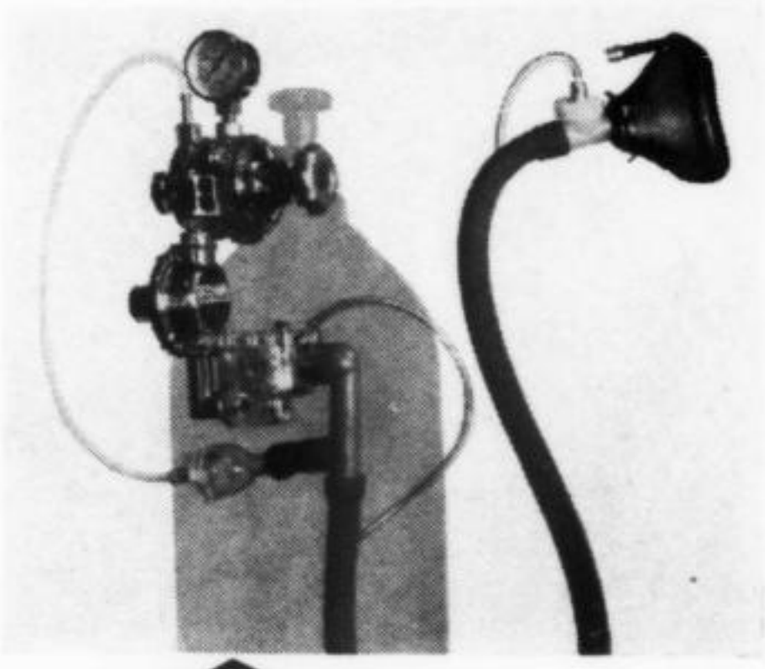
Specify · · OHIO

DOTCO IPPB UNITS

The apparatus provides assisted intermittent positive-pressure breathing or automatic controlled respiration. Breathing effort required to assist ventilation can be adjusted to meet the patient's requirements. Delivers higher aerosol concentration to reduce patient dehydration.







COMPACT RATE CONTROL ATTACHMENT is used as an Assistor-Controller mechanism for either DOTCO Respirators or the Deep Breather unit. It is adjusted to cycle at slower-than-normal patient breathing rate. If the patient does not make a breathing effort within the adjusted time cycle, the rate control attachment will initiate a breathing cycle.

THE RESPIRATOR is especially suited for use in hospitals or clinics by experienced personnel. Simple adjustments provide any true mouthpiece pressure (negative and positive) which registers on the mask pressure gauge. *Available in cylinder or pipeline models. Negative Pressure Attachment, Oxygen Diluter and Rate Controller optional.*

THE DEEP BREATHER is a more compact, simplified model for the home patient. Mouthpiece pressure is set and sealed by physician or technician. *Available in cylinder model. Oxygen Diluter and Rate Controller optional.*

"Service is Ohio Chemical's Most Important Commodity!"

For more detailed information, please request Catalog 4780.

OHIO

Ohio Chemical

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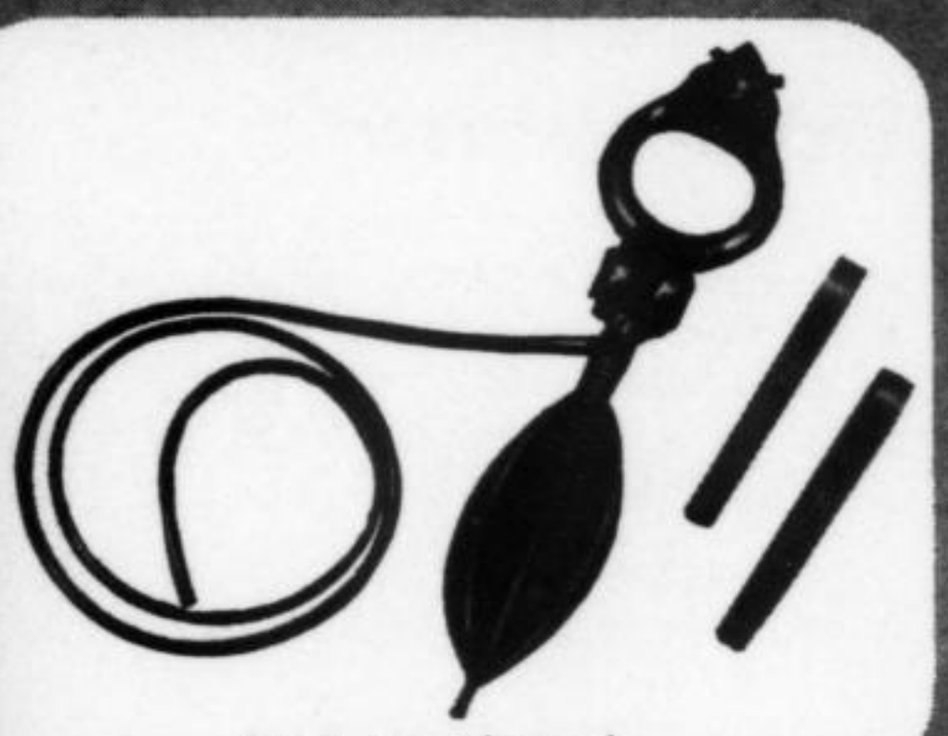
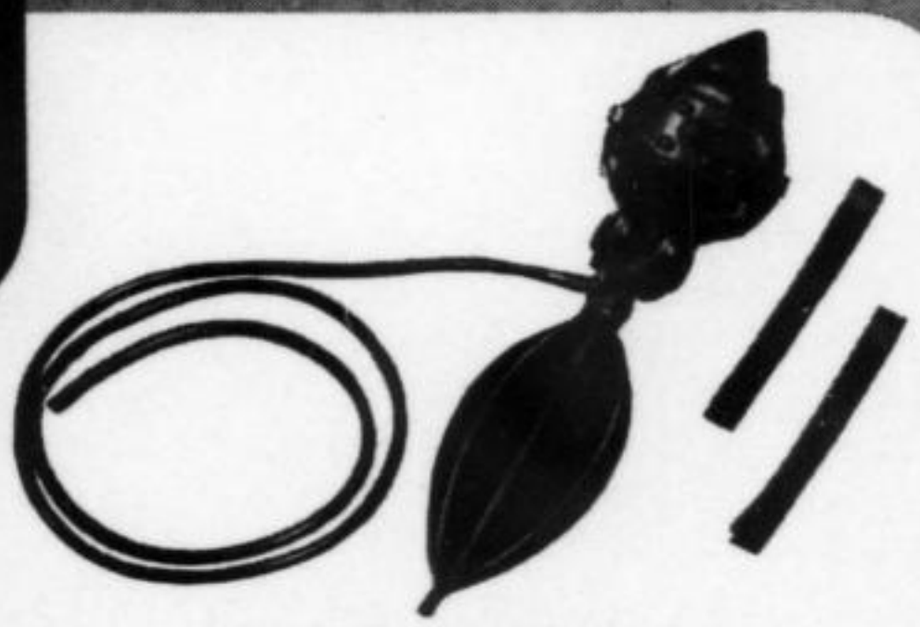
OXYGEN THERAPY MASKS

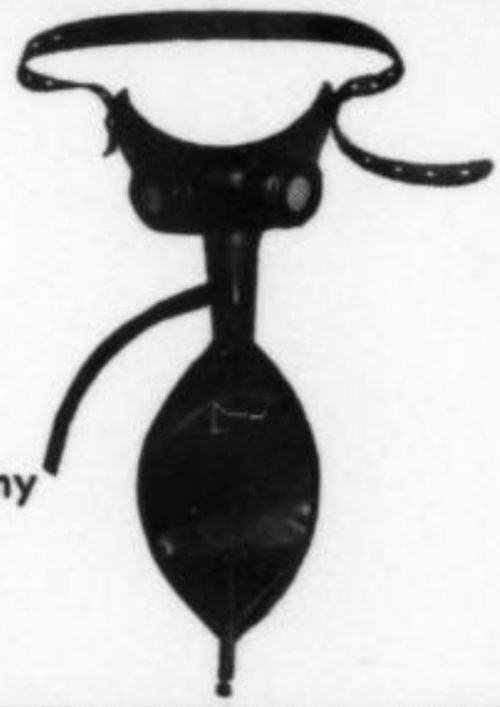
Laboratory-tested...
Hospital-approved



B-L-B Nasal Mask



B-L-B Oronasal Mask



B-L-B Tracheotomy Mask

B-L-B PARTIAL REBREATHING MASKS

- Provide high oxygen concentrations at low cost
- Are adjustable to facial contours
- May be easily cleaned and sterilized

K-S DISPOSABLE MASKS

- Available in large and small sizes
- Economical, efficient, comfortable
- May be autoclaved if desired

Small Kiddie Space Mask

Large Size for Adults

For further details and prices, please request Catalog 4780.

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